DO NOT OPEN 2 MOST FWD WEARPLATE HOLES

(10 holes) as per Dwg D3391

(20 holes) as per Dwg D3391

8-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250"

9-Open wearplate holes of D3391-023 assembly detail section H-H to Ø0.297"

•	•		
Wark	Order	ID	115506

115506

Page 2

April-02-14 11:14:27 AM

Item ID: Revision ID: D3391-023

Mid Tube Assembly

Accept

N900040100

Setup Start

NS1

Stop *NICO*

Item Name: Start Date:

4/02/14

Start Qty: 1.00

1

Cust Item ID:

Customer:

Required Date: 4/16/14

Req'd Oty: 1.00

1

Date:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Start

Stop

*NID1

Run

*NR2

Sequence ID/ Work Center ID Operation Description

OC:

Set Up/ Run Hours Tool ID

DEC 14-4-22

Tool # Plan

Plan Code Accept Oty Reject Oty Reject Insp.

Number Stamp

11-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

10-Open .375" holes to .438" ***do not open fwd saddle holes***

12- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill. 188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021 D3391-021 BATCH:

- 13- Using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.
- 14- Locating from two fwd wearplate holes in D3391-023 drill remaining 6 wearplte holes in D3391-021 using DT8937
- 15- Open 10 wearplate holes in D3391-021 to 0.297" dia.
- 16- insert D3391-021 into D3391-23
- 17- insert T-pins into first and third fwd saddle holes
- 18- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per
- 19- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499".
- 20-Deburr and blow out all chips from inside tube, scribe batch # in D3391-023 at aft end.

14-4-23

Work Ord		15506		*11 <i>5</i>		Page 3					
Item ID: Revision ID:	D3391-023	-		Accept	*N900	0040	100)* :	Setup Sta	rt * N	S1*
Item Name:	Mid Tube Ass	sembly							Sto	^р *М	S2*
Start Date: Required Date: Reference:	4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item 1 Customer:	ID:					,
Approvals:	Process Pla	an:	Date:	Tooling:	D	ate:	_	F	Run Sta	~1 <i>V</i> 1	R1*
	QC:		Date:	SPC (Y/N):	D	ate:			Sto	*N	R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
110		QC5- Inspect part compl	eteness to step on W/O	0.00	P				-		_
110 QC Quality Control		Мето		0.00 1414	123						
120	, *	Chemical Conversion Co	oat per QSI005 4.1	0.00 DGL	1/1 L	14-28					
100 HandFinish Hand Finishing		Мето		0.00							

130

QC7-Inspect Chemical Conversion Coat

0.00

Memo

0.00

Quality Control

1 8 Dc 14/04/28

Work Orde April-02-14 11:		5506					Page 4					
Revision ID:	D3391-023 Mid Tube Ass	sembly		Accept	*N900	040	100)*	Setup	Start Stop	*N *N	S1* S2*
Start Date: Required Date: Reference:	4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:				_	g, ,		
Approvals:	Process Pla	an:	Date:	Tooling:	D	ate:	_		Run	Start	*N	R1*
	QC:	WALKE AND THE STREET	Date:	SPC (Y/N):		ate:				Stop	*N	R2*
Sequence ID/ Work Center II 140)	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	t Rej Qty		Reject Number	Insp. Stamp
140 Skidtubes		Skidtubes Memo		0.00			1	<i>†</i>		 -		-
Skidtubes		1-Open floa 2-C'sink flot 3- Prepare to 4-Bond web Adhere for 1 A/R Sikafle batch#: /2	x exp: 14 /10/09			DK 14	1/04/	1 28				DAS

150

QC5- Inspect part completeness to step on W/O

0.00

150 QC

Memo

0.00

1 8 14-0430

Quality Control

Quality Control

April-02-14 11:				Page 5								
Item ID: Revision ID:	D3391-023			Accept	*N900	0040	100)*	Setup St	art *N	S1*	
Item Name:	Mid Tube As	ssembly							St	top *\	S2*	
Start Date:	4/02/14	Start Qty: 1.00	*1*		Cust Item	ID:						
Required Date:	4/16/14	Req'd Qty: 1.00	*1*		Customer:							
Reference:								_	- a.			
Approvals:	Process Pl	an:	Date:	Tooling:	D	ate:		j			R1*	
	QC:		Date:	SPC (Y/N):	D	ate:			St	^{op} *N	R2*	
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	_
160		Skidtubes										
Skidtubes		Memo		0.00		B1214-04	1 40					
Skidtubes		1-Weld cros 2-grind weld	sbolt spacer as per dwg D I flush — Oc 14)	3391 & OSI 004 A/R W 04/30 SNI]	131 <u>=</u> 14-104	30					
170		QC10- Inspect visual per	QSI004- ground welds	0.00	/,							
170 oc				0.00 14/5/	15							
Quality Control		Memo		0.00								
180		QC5- Inspect part compl	eteness to step on W/O	0.00 SK	P							
120	,			19/	5/15							
UC .		Mama		0.00								

0.00

Memo

OC

Quality Control

115506 Page 6 April-02-14 11:14:27 AM D3391-023 Accept Item ID: *N900040100* Setup Start **Revision ID:** Stop **Item Name:** Mid Tube Assembly *1* **Start Oty: 1.00 Start Date:** 4/02/14 **Cust Item ID:** Required Date: 4/16/14 Req'd Qty: 1.00 *1* **Customer:** Reference: Start Run Date: Tooling: Process Plan: _____ Approvals: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation **Tool ID** Set Up/ Tool # Plan Accept Reject Reject Insp. **Work Center ID Description** Code Qty Qty Number Stamp **Run Hours** 185 Pressure Wash per QSI005 4.3 0.00 *125* HandFinish 0.00 Memo Hand Finishing AND REALODINE AS PER PAR09-043 190 White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum 0.00 *190* Powdercoat 0.00 Memo **Powder Coating** START TIME: OVEN TEMPERATURE: FINISH TIME: 200 QC3- Inspect Part Finish 0.00

0.00

Memo

·											
Work Ord April-02-14 11		15506		*115	506*			11			Page 7
Item ID: Revision ID: Item Name:	D3391-023			Accept	*N900	04 0	100)* ፡	Setup Sta		S1* S2*
-	4/02/14 : 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:						
Approvals:	Process P	lan:	Date:	Tooling:	Da	ıte:		F	Run Sta Sto	~! <i>\</i> J	R1*
Required Date: 4/16/14 Reference: Approvals: Proce QC: Sequence ID/ Work Center ID	QC:		_ Date:	_ SPC (Y/N):	Date:				510	, *N	R2*
	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
230 HandFinish		HandFinishing Memo		0.00							
Hand Finishing		•	D3591-1 spacers using DT erts as per Dwg	9416 starting from 0.500" si	de						
240		QC5- Inspect part compl	eteness to step on W/O	0.00							
240 oc		Memo		0.00							

0.00

0.00

Quality Control

950 Packaging

Packaging

Identify as per dwg & Stock Location:_____

Memo

250

Work Ord April-02-14 11:		15506		*115506*										
Item ID: D3391-023 Revision ID: Item Name: Mid Tube Assembly			Accept	*N900	040	100)*	Setup	Start Stop		S1* S2*			
Start Date: Required Date: Reference:	4/02/14 4/16/14	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item 1 Customer:	D:					14,	. 12		
Approvals:	Process P	Plan:	Date:	Tooling: SPC (Y/N):		ate:			Run	Start Stop		R1* R2*		
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rejo Qty		Reject Yumber	Insp. Stamp		
260 *260* QC		QC21- Final Inspection -	Work Order Release	0.00				···-				- NISOTI-		

Memo

Quality Control

Picklist Print

April-02-14 11:14:30 AM

Work Order ID: 115506

115506

LG001

109109

Parent Item:

D3391-023

D3391-023

Parent Item Name: Mid Tube Assembly

Start Date: 4/02/14

Required Date: 4/16/14

Start Qty: 1.00

Required Oty: 1.00

Comments:

IPP A05.10.20New Issue KJ/EC IPP B06.02.10ECN773 dwg rev.D EC

EC IPP C 07.03.20 rev F dwg EC IPP D 07.03.28 re-format IPP E 07.10.31 ecn 1053P EC

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100		Manufactured	No			100	Each	83.0000	1	1		***	,
D2500-1	-100								**				
				Location	!	Loc	Oty	Loc Code					
				HALL			83				_		
					82373		22	•		12	- 1	,	4/.1
D3389-1		Manufactured	No	(86065	140	61 Each	8.0000	1 -	1	- <u> </u>	· <u>C</u>	1442
	L	Manufactured	1.0			110	Buen	0.0000	**	1	/11/20	,	
*D3389-1 ³	•								^^ _	De 14	104/28		····
***************************************				Location	B114969	Loc	Otv	Loc Code		Ø '	/		
				LG	אוושי		8			0			
					113057		8		_		_		
D3681-1		Manufactured	No			160	Each	234.0000	5	5			
*D3681-13	k								**			1814	04-30
				Location		Loc	<u>Oty</u>	Loc Code					
				LG			168				-		
				((114884)		168			5	_		

66

66

Page 2

April-02-14 11:14:30 AM

Work Order ID: 115506

115506

D3391-023

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly

Start Date: 4/02/14

**

Required Date: 4/16/14

Start Qty: 1.00

Required Qty: 1.00

D3591-1

Manufactured

No

Each

88.0000

2

D3591-1

Bushing

Location	Į.	Loc Oty	Loc Code	
FG		10		
	92873	10		
FP001		78		
	100699	5		
	107918	36		•
	109107	37		71-11-11-11-11-11-11-11-11-11-11-11-11-1

ALS4-1032-130

AELS4-1032-130 Purchased

230

Each

9,937.000

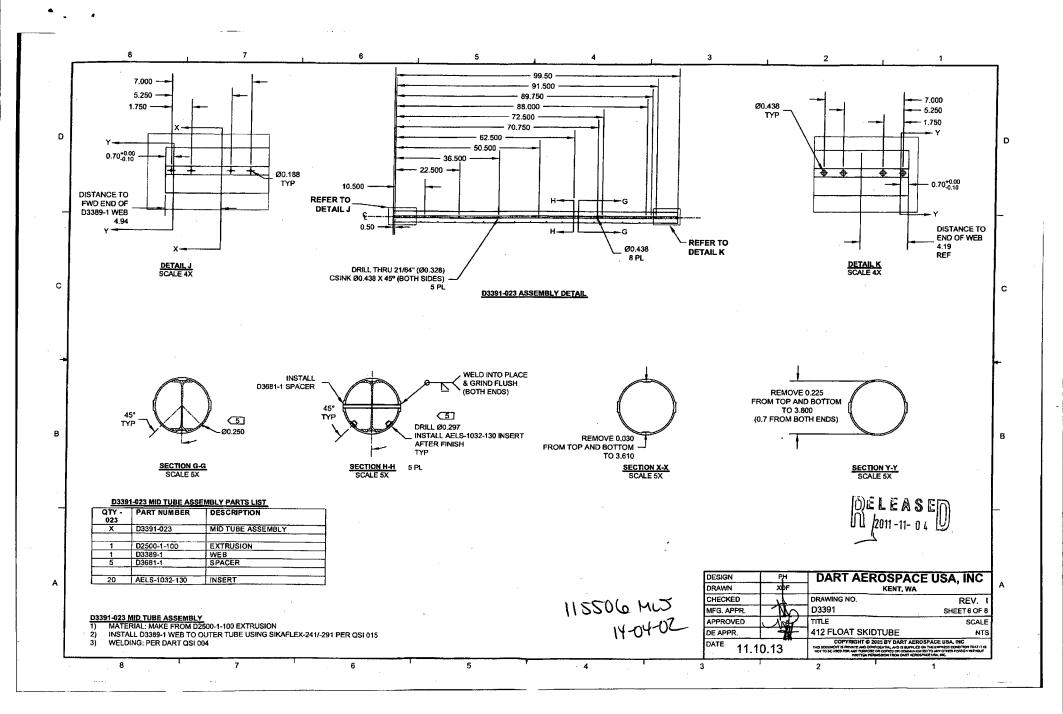
20 **

20

AI S4-1032-130

Rivnut

Locatio	<u>n</u>	Loc Oty	Loc Code	
FP001		9832		
	M128649	9832		
ST279		48		
	M128211	48		
st510		57		
	M126109	57		



	•		
NCR:	Yes	1	No
		,	110

NCR: "Y	es / No				WORK ORDER NON-	CO	NFORI	MANCE / UPDATE		DQA: (QA Closed;	7	: 14/08/14 ::14/12/11	
Work Orda	- BII	ECA	1		DISPOSITION			AG	AINST DE	PARTMENT	/PROCESS		
	r: <u>B11</u> o. <u>D339</u> o. WUR		21		Rework Scrap Use-as-is Work Order Update Skid-tube Machining Machining Thermoforming Large Fab Composite				Water Jet Engineering Prod. Eng. Coor. Quality Other X Supplier Faculty				
Root				Descri	ption of work order update		Initial	Action		Sign &			
Cause	Date	Step	Qty	(or Non-conformance	Cr	nief Eng	Description		Date	Verification	QC Inspector	
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved			1	PAREL POLOS TOUS PC. Parl C Clear	ER SURFACE. TO WAS STORED IN DINTE/ACID ROOM LONG TO WERE NOT Kept in Arca/ Poor hour lead)·	DAS 12 9-89	SCRAP. AND Destry' WO Replace	C	H-8-6	14-5-6	DAS 16 9-89 14/00/06	
1	- C					AUI	LT CATE	GORY					
Landin	Bending Centre Not Concentric to O/S BOM/Route Broken/Damaged Burrs Contamination Countersink Cuffs Cuffs Countersink Cut Too Short Drill Holes Torque Waves in Extrusion Turning Sequence Wave/Twist in Tube Folio					Instruct Mainte Mislabe Misread Offset Out of C	on Incomplete ions Incomplete/Unclear nance led Calibration equence		Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V Power Loss/	ct ssing Vrong Surge	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other		
	Wave/Twist in Tube Folio					Outside Dimensions							

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G



Non-Conformance Report

Reviewed	<u>f</u>					
DQA:					Printed on:	Wednesday, August 06, 2014
Date:		į				
Raised Date	Status		Owner		Num	
8/6/2014)pen		Forbes, Nigel		NCR14-4110
Target Date	Standard				Seve	· .
8/15/2014						MAJOR
Process				Audit		
	Employee fi	nding		L	IFIA C	atomonia —
Raised By Person		Raised Ag		ent or Supplier)	Fault C	ategory Maintenance
Downing, E	ric M		Fac	ility		Wallterlance
an a rack right in line the 15th of may 2014	e of the pressi	ure washer 8	k wash hose spr	ay, the parts were ir	ue to them be espected and	ing stored in the alodine room placed in the alodine room on
Keywords				Product	D412-742\D	3391-023
Document				Root Cause		
Closed By	Closed D	ate	Resolution			
Target Date	Owner	Tipe of the state of	y type (g. ft) — en trede treuty (Mott Tay Till 1991 et)	Closed Date	Closed B	У
8/15/2014	Owner	Forbes, Ni	gel			
Details						
					•	
	***			A Commence of the Commence of		
		in the second		Target Date	e til te yktale i ka	Completed Date
Number	Owner			Response		
Details 1	Downing	Eric M		8/8/2014		8/6/2014
scrap all mid tubes D save the matching fv	03391-023 and vd tubes	have produc	ction attempt to	D3391-023 B11550 production is unabl & B114258 all writte	e to save the I	B115507 are all scrap and D3391-021 B114257, B114259 eack of each w/o
2	Forbes, I	Nigel		8/15/2014		
look into the storing time the parts are ke	of the tubes in opt in the depa	rtment and fi	nd a way to			